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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,339	. 02/26/2004	Karl-Heinz Nuebel	10191/3529	9085
26646	7590 07/26/2006		EXAM	INER
KENYON & KENYON LLP			NGUYEN, TUYEN T	
ONE BROADWAY NEW YORK, NY 10004		ART UNIT	PAPER NUMBER	
11211 10141,		,	2832	
			DATE MAII ED: 07/26/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/789,339	NUEBEL ET AL.		
Office Action Summary	Examiner	Art Unit		
	TUYEN T. NGUYEN	2832		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	th the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a red will apply and will expire SIX (6) MONute, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status				
 1) Responsive to communication(s) filed on 01 2a) This action is FINAL. 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under 	nis action is non-final. vance except for formal matt			
Disposition of Claims				
4) Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdred 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-13 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and Application Papers 9) □ The specification is objected to by the Examination of the drawing(s) filed on is/are: a) □ and Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the correction o	rawn from consideration. /or election requirement. ner. ccepted or b) objected to be drawing(s) be held in abeyar ection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage		
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview S	Summary (PTO-413)		

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3/127/06 •

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PTOL-326 (Rev. 7-05)

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2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

5) Notice of Informal Patent Application (PTO-152)

6) 🔲 Other: ____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. [US 5,685,065] in view of UK 199,789.

Suzuki et al. discloses an ignition coil [figures 1-3] comprising:

- a first coil bobbin [11] having a first coil [10];
- a second coil bobbin [21] having a second coil [22];
- a center core [2] formed from laminated magnetic material;
- a peripheral core [3] formed from laminated magnetic material, wherein the peripheral core includes a recess [3c] in a circumferential extension thereof to accommodate one end of the center core; and
- a permanent magnet [5] disposed between the center core and the peripheral core, wherein the permanent magnet positioned at an end area of the center core facing away from the end area inserted into the recess of the peripheral core and directly adjacent to the peripheral core.

Suzuki et al. discloses the instant claimed invention except for a through-recess in the peripheral core and the specific shape of the center core.

Application/Control Number: 10/789,339

Art Unit: 2832

UK 199,789 discloses a core structure for an ignition coil [figure 3] having at least one through-recess [figure 3] in a peripheral core structure [d] and a center core [a].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use a through-recess design of UK 199,789 in Suzuki et al. for the purpose of controlling magnetic flux.

The specific I-shape of the center core would have been an obvious design consideration for the purpose of facilitating manufacturing and controlling the magnetic flux.

Regarding claim 3, the specific arrangement of the coil/bobbin would have been an obvious design consideration for the purpose of controlling the inductance.

Regarding claim 6, Suzuki et al. discloses the center core, the first and second coil bobbins and the permanent magnet formed a preassembled module.

Regarding claims 7-8, Suzuki et al. further discloses the peripheral core formed of one piece and a clamped joint existing between the peripheral core and the center core.

Regarding claim 9, Suzuki et al. inherently discloses the recess having a smaller size than the end area of the center core and widenable to accommodate the center core [note, Suzuki et al. teaches a fitted action between the center core and the peripheral core.]

Regarding claims 10-11, discloses the claimed invention except for the peripheral core being formed of two-piece design. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a two-piece design for the peripheral core, since it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art. *Nerwin v. Erlichman*, 168 USPQ 177, 179. Suzuki et al. further discloses that air gap may exist between the center core and the peripheral core.

Regarding claim 12, iron is a known material in forming the magnetic core.

Response to Arguments

Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/789,339 Page 5

Art Unit: 2832

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN W

Truje Nguyen